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/For information on the mythological origins of manioc, tobacco and coca as related in Tucano folk-tales, see category 539 or category 116, pp. 34-41./

/111/

*101 t) YEBÁ-MASÃ

1) People-Name-Language. -- Yebá-masã is their denomination in the mother tongue, although they do not know the meaning of this term (41).

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41. Lucas, the old Tukano from S. Luzia, as has already been said (IV-2, a), explained to Padre Antonio Giacone that Yepá-maxsã (as they say in Tukano) means gente-da-terra /people of the land/, and that the natives who reached the Papurí afterwards called the Tukano this. It is to be noted that Yepá, according to the legends, is the son of Bũxpó (the Thunder), and the Indians, with some religious notions, say that it is God, the Son. Koch G. (Z. I., 216) met on the Tiquié an Indian woman by the name of Inácia, of the Yepália tribe, with beautiful physiognomic features. Would it be another spelling of Yepá?

[773]

Their idiom is classified in the Tukano family, as it is shown by the Vocabulary (cf. Discoteca Etno-linguistico-musical and Idiomas Indígenas da Amazônia). In contrast to the Tukano, they are slender types, of medium stature like them or even shorter. Small face, tapering toward the chin. Physiognomy little or not at all Mongoloid. Coarser hair, black or dark, not lissotrichous, as generally befalls the natives of Brazil. At times they even exhibit slight waves. Dark eyes, nose low at the root, like the Tukano, but higher and finer tip. The men ordinarily have the ears pierced.

[142]

• [244] [222] [224] [284] With an insignificant mandioca-agriculture, they are principally hunters, and they live on wild fruits. For this reason the consumption of ipadú /coca/ is great among them (cf. VI - 4, i (4). They all use the hammock of 30 threads. Their festivals are frequent.

5: Goldman E-5 (1939-1940) 1963
SQ19 Tucano SQ19

CUBEO

Cubeo do not themselves make this identification. The outermost zone, that of manioc cultivation, is largely a female province. Men make the clearing, but women work in the gardens. A woman's garden is virtually her private domain. A man enters it upon a woman's invitation. A husband goes there to help with some heavy task or for casual sexual intercourse. There is extra spice to marital coitus in the garden because it is the traditional place for adultery and so the Indians associate it with licentious passion. Men do not ordinarily wander over to the manioc gardens. When I wanted to see the women at work in their gardens I was not free to go without an escort, who was usually the husband himself or sometimes the headman. In the latter case, the headman courteously informed the husband, and everyone else if the husband was away. Frequent visiting was definitely discouraged. Women could not help but attribute sexual significance to a man's visit and would deride the notion that a man was interested in watching them farm.

This outer zone, then, has a decided sexual connotation that is both erotic and social. Women give birth in their manioc gardens and during male cult ceremonies they may take shelter in the gardens. Nursing babies are brought to the manioc gardens regardless of sex, but from walking age on, no boy will think of playing in the vicinity of the gardens. Manioc is a strictly secular crop for which there are no rites, despite its overwhelming nutritive importance and the usual hazards of cultivation.

From the sexual point of view, the zone of secondary cultivation is a mixed one. Secondary crops include sugar cane, tobacco, *mihi* (kaapi, a vision-inducing narcotic), coca, calabash, gourd, squash, melons, yams, sweet potatoes, and sometimes maize. There are also cultivated trees – orange, lemon, pupunha (*Guilielma speciosa*), pineapple, plantain, and banana. Men exclusively cultivate tobacco, *mihi*, and coca, women exclusively cultivate bitter manioc; all other plantings are mixed. If a plant, onions, for example, is taken from the whites and the Indians have seen a white man grow it, they then regard it as a proper male cultivation. Maize is an old crop that belongs to women but not all communities grow it. Among the *Bahikiwa* and its neighboring subsibs no maize was planted.[3] This

[3] When Koch-Grünberg was on the Cuduiari, in 1903, he observed that the upriver communities grew only maize and no manioc. For bitter manioc, he said, they came to the lower Cuduiari communities (1909, II, 84). During my survey of the river I found no community without manioc. On the other hand, maize, which had already begun to disappear in the time of Koch-Grünberg, had become quite scarce and no longer entered into the regular diet. On certain ceremonial occasions it was made up into tortillas. Mainly it was used in native beer and as

5: Goldman E-5 (1939-1940) 1963
SQ19 Tucano SQ19
CUBEO

Caño dwellers are self-conscious; they entertain less and are reluctant to have visitors. I was never invited or encouraged to visit a *caño* dwelling house. I was always told that they did not care to have visitors.

When a headman dies his house is ordinarily abandoned and the new headman undertakes to build a new maloca, since one requirement of the office is his ability to enlist his sibmates in working with him. Abandonment of a house, however, changes mainly the outlines of the clearing if a new site is chosen for the new maloca. A new maloca may be built alongside the old, in which case there is no change at all. Sometimes the new headman decides that the old site was the victim of evil forces and a new clearing is built. But against such a fear is the desire not to abandon still-productive manioc plantations. At all events, a new clearing is normally close enough to the old to ease the transition from last harvest to new harvest. When a site is moved the last harvest is drawn from the old, and cuttings from the old *chagra* (plantation) are planted in the new. Thus there is a transitional period when the community is actually working both clearings. The Cubeo regard this transition period as a difficult one, and until they are drawing a bitter manioc harvest from the new clearing they will be too preoccupied to hold drinking parties. Fruit trees on the old *chagra* are harvested as long as they bear fruit.

The extent of a community's territory is such that it will be able to circulate within it more or less permanently, reoccupying after some 15 years land that has become reforested and so workable again. Boundaries are along a river only. Past the line of cultivation the forest is an undifferentiated darkness.

The traditions of the Cubeo indicate that they were originally dwellers along the Vaupés, the main stream, and that they later moved up the smaller tributaries such as the Cuduiarí and the Querarí. The present distribution of sibs is also interesting in this connection in that high-ranking sibs live along the main stream or along the mouths of the tributaries, whereas the lower-ranking sibs occupy the headwaters of smaller streams. Sib status is definitely associated with location along a river. The back reaches of creeks deep in the forests are the refuge of the weak, whereas the strong occupy a stretch of river that has majesty either by sweep of water or by the character of its rapids. The main site of a sib that has become dispersed is always in a conspicuous part of a river whereas Satellites and Independents often move up small creeks. Father Antonio Giacone of the Salesian Mission has observed that the Tucano (referring to the tribe) never constructed their malocas in creeks but only along the main river. Occupying the main streams, he noted, they

5: Goldman E-5 (1939-1940) 1963
SQ19 Tucano SQ19
CUBEO

regarded themselves as the superior of all other Indians who were driven back into the headwaters (Giacone, 1949, p. 5).

Thus the movement of Colombian settlers down the Vaupés River had a markedly disturbing effect upon the Cubeo by dispossessing them from their ancestral river. The first-ranking sibs, however, did not leave their sites at the rapids from whence their ancestors are supposed to have emerged. But in staying on they succumbed most rapidly to the European influence.

Despite their strong orientation toward the river the Cubeo also make use of footpaths. Near the mouth of the Cuduiari, for example, a trail leads to the Querari. There are, in fact, many paths in the region that provide short cuts between rivers. Raiding parties come on foot to avoid detection, and paths are used for short journeys. The Cubeo Indian, however, is not, by preference, a walker.

SIZE

The size of a clearing is variable, to a degree, depending upon the number of households and their ambitions for entertaining and for trade with the whites. A headman's household, which is always the most ambitious and is, therefore, the most productive, requires approximately two acres of manioc land for an annual yield of 400 baskets (50–60 pounds per basket). Most households among the *Bahikiwa* averaged only 200 baskets of manioc a year and utilized accordingly a manioc garden of one acre. A sib center community of 12 households requires more than 12 acres for manioc cultivation as well as several acres more for the plaza and subsidiary cultivations, if the full burden of entertaining is left to one or two households, as is often the case. Satellite communities are often as small as three households and their clearings are proportionately smaller.

The Cubeo community is always small, rarely reaching a population beyond 16 households, a household in every case being limited to a nuclear family. The size of community seems to be a result of a complex series of adaptations of many elements to one another—architectural, ecological, sociological, and psychological. The architectural factor is that a community must be dominated by a single maloca. The largest maloca in the Northwest Amazon region is a 16-household dwelling with eight compartments ranged along each long wall. The smaller dwellings of the Independents can augment the size of a community. The fact is, however, that an Independent household has usually been formed for personal reasons, such as a quarrel with the headman, rather than for reasons of crowding.

5: Goldman E-5 (1939-1940) 1963
SQ19 Tucano SQ19
CUBEO

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592 the headman, rather than for reasons of crowding. The Cubeo believe that one roof unites a community while several roofs divide it.

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311 Size of maloca is adapted in some measure to cultivable terrain. We have already noted that seasonal flooding and the requirement of good river frontage limit the availability of land for relatively permanent cultivation. But these are highly variable factors. Along the Vaupés, a deep river basin that can carry a great volume of water, there are vast stretches of dry land that have become the sites of civilized population centers. There is no doubt that from terrain alone the Vaupés could have supported far greater Indian populations than it did at the time of first contact. Along the Vaupés the limiting factor seems to have been social. On the Cuduiarí, on the other hand, land contours are such as to divide frontages into much smaller segments. On this smaller stream, terrain has been a more significant factor in limiting community size. But even on the Cuduiarí, land utilization is
[614] subject to strong social considerations. One consideration is that sibs must retain their traditional boundaries. This means that with slash-burn horticulture the sib territory must provide, as a minimum, a three-step cycle in which a community returns to its original land after 10 to 15 years. The well-situated tract must then be at least three times the average land requirement at any given time.

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244 There is still another consideration, and that is the distance of manioc gardens from the residence. When they prepare a clearing, the Cubeo bear in mind the distance a woman will have to trudge with her burdens of manioc, a baby, and firewood. That is why the gardens are laid out along a semicircle. Bitter manioc is a cumbersome crop. It needs reasonably dry soil and it makes heavy demands upon the time and energy of a woman for its cultivation, transportation, and preparation. Whatever can be saved from travel time is an advantage.

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182 The thesis of ecological adaptation, however, can be argued most successfully in the abstract. If one notes the actual events in the life of a community, then the processes of community growth and community fission appear in quite a different light. The balance of forces of fusion and of fission that hold community size to its stable limits in harmony with the natural environment are not entirely economic. They often include personal factors. To state this more precisely: the economic factor affects fusion strongly but has less direct bearing upon fission. Satellites, for example, are urged to return to the fold, guests
[578] are urged to stay on, and daughters are invited to take up residence in their own sib if there is ample land. Splitting, on the other hand, occurs because of personal quarrels and rarely because of a feeling of land shortage.

5: Goldman E-5 (1939-1940) 1963
SQ19 Tucano SQ19
CUBEO

From *Kíwai*, the culture hero, the people learned how to fish with hook and line and how to hunt with bow and arrow and with the blowgun. The Indians say that in ancient times they did not hunt the tapir. It was not until they acquired guns that they learned how to kill tapir. Other animals they did not eat because of religious taboos that are no longer in force. Paca and armadillo were devourers of human corpses and were hence forbidden; eating sloth would make people lazy; and finally, all animals whose names were represented in the sib genealogies were taboo to members of that sib.

PRODUCTION

The Cubeo do not value abundance of food for its own sake. Plenty is, to be sure, widely enjoyed as a break in the daily routine. It is not valued for its promise of satiety, for the Indians customarily eat moderately, but for the opportunity it offers for a gay feast. A big catch of game or of fish excites the people because it does not occur often. There is no desire to overdo, however, and no more is brought than will be consumed directly or can be safely preserved by smoking and drying. Since, at best, smoking preserves meat for only a week or two in the tropical climate there is not much point in increasing a fisherman's or a hunter's "take." Social status is a minor issue in food production since feasting is essentially intrasib, whereas social status comes into play most sharply between sibs.

In short, there are no strong motives to stimulate hunting and fishing other than appetite and desire for variety. The pressure in production falls upon the women. If we are to speak of "surplus" at all in Cubeo food production it can be only in connection with the manioc crop, which is regarded as the woman's contribution, even though it is the men who make the clearing. The limiting factor in manioc production is not land as much as it is labor and morale. A large community under a forceful headman can clear a good deal more land than is needed for subsistence. In the case of manioc, subsistence can be measured precisely by the amount that is converted directly to manioc cake (*duno*) and to tapioca porridge. "Surplus" is what is converted to chicha (*unkúndye*) and to farinha. There can be no doubt but that the machete, now universal in the region, improved the standard of nourishment considerably. The real limitation upon production is woman power. Since women carry through all phases of manioc production, from planting and harvesting to conversion into the final product, they are the ultimate "bottleneck." A woman working only to prepare manioc as food is already fully occupied.

5: Goldman E-5 (1939-1940) 1963
SQ19 Tucano SQ19
CUBEO

To produce farinha, which is mainly for trade, and chicha, which is mainly for sociability, she draws upon what is normally her "spare" time. She gives up the evening hours of rest, moments of gossip, play with her breast baby, and food foraging in the brush, which she regards as a pleasant diversion from the back-breaking manioc routine.

A Cubeo woman cannot be coerced to work any more than a man can be. Her willingness to work hard depends, in the case of a married woman, upon her regard for her husband in the first place, but also upon her general relations with the community at large. The Cubeo know that a lazy woman is a disaffected woman and they are conscious, accordingly, of the social importance of marital felicity. The only control the community has over a domestic situation is by maintaining a generally high level of good feeling. Needless to say, Cubeo women are not and do not consider themselves to be abused. A woman who does not care for her husband will leave him or, if her laziness is deep-seated and represents a grievance against the community as a whole, she will urge her husband to leave with her. The fact is, the feeling against indolence or apathy toward work is so strong that even a thick-skinned person can sense the unvoiced community disapproval. Thus, in the absence of strong political authority the productivity of a Cubeo community depends in the main upon all of the subtle factors of kinship, sexual attractiveness, and satisfaction, and of public morale. An unproductive community is normally not underprivileged by virtue of location or of tools but simply by its own lack of social health.

FISHING

Fish are abundant and there is hardly a day when fish are not part of the diet. The basic Cubeo meal consists of manioc cake and fish. Every male, from puberty to the grave, is a fisherman. Fishing is the regular masculine routine. Most fishing is individual – a man sometimes accompanied by a young son in a small canoe fishing with hook and line, or a man (also accompanied by a young son) fishing in shallows with bow and arrow. An Indian fishes his own stretch of river at a preferred place. If a man wishes to join another at the same place there is no quarrel, since fishing is never competitive. There is some rivalrous display of a catch but only a good-humored kind. Unlike gardening, which follows a rigid routine, fishing is flexible; a man follows his hunches and preferences, the seasons, and the species of fish and their habits. Some fishing is by torchlight, at night. The men do not necessarily leave for the river at the same time,

5: Goldman E-5 (1939-1940) 1963
SQ19 Tucano SQ19
CUBEO

He brings home the hide for a trophy, for which there is no further use, but the teeth form a girdle that is a mark of high status. Jaguar hunting is strictly voluntary and is not a formal test of manhood. During my stay among the *Bahúkiwa* the headman's son — an aspirant for the position — killed a jaguar with a steel-tipped lance and accepted modestly the moderate acclaim of the community. His explanation was that he wanted to experience what it was like to kill a jaguar.

GARDENING

I have no statistical means for comparing the relative contributions of men and women to the food supply. The general rule is that men provide the bulk of the protein, women the bulk of the carbohydrates.

The Cubeo unhesitatingly regard the man as economically most important. This is surprising, since manioc in its multiple uses as food, chicha, and trade goods is not only the staff of life but the source of intrasib activity, status, and general well-being. My informants pointed out, however, that it is fish which is the important food, and besides, they added, it is the men who make the manioc clearing. Nutritionally they are right. Bitter manioc is a poor food, rich in starch and deficient in protein.

An important distinction between the labor of men and women is in the nature of their economic effort. That of the woman borders on drudgery. Hers is the steady routine of planting, harvesting, washing, scraping, grinding, operating the tipiti press, and, finally, forming the manioc cake and baking it.

On days when only subsistence manioc — that is, the manioc cake — is to be baked, a woman devotes half of all the daylight hours to its preparation, including time in the garden. Her preferred routine is to spend six hours on alternate days in gardening. On the day she gardens, she also spends two or more additional hours in processing the roots. On the second day, however, she works only four hours on manioc. She spends, on the average, 12 hours on manioc over a two-day period. If to this is added hours spent in preparing chicha and farinha, the annual average comes close to nine hours a day. By contrast, men's labor is more flexible in its demand upon time and the quality of effort. However, it would be erroneous to overstress the distinction. There is, after all, variety in the manioc cycle as well.

Women customarily go to their manioc gardens at the same time, leaving the maloca an hour or so after daybreak and after breakfast. Each smears her face with red pigment both as ointment against sunburn and as preventive magic against the jaguar. A woman is

5: Goldman E-5 (1939-1940) 1963
SQ19 Tucano SQ19
CUBE D

usually accompanied by an unmarried daughter, who is both helper and chaperon, a dog, and her breast baby. Her equipment is a machete (in the past it was a digging stick), a portage basket, and a tray upon which she rests her baby.

With the machete she cuts the long root at the base of a mature manioc plant and then loosens the earth so as to pull out the cluster of tubers. Each root yields an average of six tubers, two of which are large, two medium, and two small. This phase of the work is difficult but the woman moves quickly and silently. She does not sing at her work. Her daughter, assistant and apprentice, tears each tuber from the root, scrapes it clear of earth, and drops it in the basket. When a basket has been filled the woman gathers up the stems of the manioc plant, trims them of their leaves, and stacks the cuttings neatly in small heaps. She burns the leaves to add ash to the soil. She does not replant the cuttings immediately, but allows them to lie for several days. After an accumulation a woman devotes a morning to replanting. She breaks up the soil of the segment she has harvested and forms it into small mounds, into each of which she puts a number of trimmed cuttings, setting them in at a sharp angle. She works segments of garden that are about 25 yards square. After replanting, the earliest harvest will be after half a year, but full maturity takes two years. Each 25-square-yard segment yields from 50 to 60 pounds of manioc, or one basket load.

Among the *Bahúkiwa*, for whom I have productivity figures, the household of the headman harvested 400 baskets of manioc annually. Another household that had three adult women harvested 500. One old woman had a minimum yield of 150 and all other households averaged close to 200. Ten households produced 2,550 baskets, or some 75 tons of manioc a year. A basket of manioc converts into two large manioc cakes. In the headman's household of seven people three cakes were eaten every two days, leaving a "surplus" of close to 30 per cent for use as chicha and as farinha. On the other hand, households producing 200 baskets annually are close to the subsistence line.

The point of this digression into production figures has been to show how exigent are the demands upon the woman's labor. The women feel that they cannot afford to interrupt their labors or they will fall behind. Nevertheless, childbirth, illness, ceremonies – women do not garden on the day of a ceremony – and the press of other activities such as accompanying men on prolonged trips for hunting (in the nature of a respite for a woman) take their toll of labor time. Women do not complain of having too much to do. On the contrary, I have heard the grievance that the manioc garden is too small.

5: Goldman E-5 (1939-1940) 1963
SQ19 Tucano SQ19
Cubeo

A woman is proud of two aspects of her work in gardening: total productivity and the quality of her manioc cake. Productivity reflects favorably upon her own efforts and, even more important, upon the efforts of her husband, who makes the clearing. The quality of manioc cake depends upon the quality of the tubers and upon the variety of manioc cultivated. Women are knowledgeable about manioc. They are familiar with many varieties, their food qualities as well as their characteristics of growth. They are experimental as well. When women from different communities meet, they talk about manioc farming, exchange information, and very often exchange cuttings. Thus, a garden includes five or six varieties of manioc. The *Bahúkiwa* cultivated eight varieties, one of which, a yellow variety, they had obtained from Indians on the Amazon below Manaos. Like any good farmer, a woman in the course of time eliminates poor strains for better ones. Many women have personal recipes for a manioc cake blended from several varieties of tuber. Gardening, being a woman's domain, is a totally secular activity. If crops grow poorly the women

Fig. 3. Preparing manioc.

5: Goldman E-5 (1939-1940) 1963
SQ19 Tucano SQ19
CUBEO

place the blame upon the material conditions. The woman, then, is more than a mere toiler in the garden. She qualifies as agronomist as well.

Women return from their gardens in the very early afternoon. They pause at the rear door of the house only long enough to drop the machete, and without putting down their burdens of manioc and infant, go directly to the river to bathe themselves and to wash the tubers. This is a pleasurable hour. Refreshed from the heat of the morning, the women play with their infants and jest with one another. Washing the tubers is a simple task of dipping the entire basket into the water. A light midday meal follows the washing, and the routine of processing the tubers begins. The woman may start with fresh roots, but for a more tender manioc cake she will allow the roots to soften for several days either in the house or in the river.

The first step is peeling. The woman seats herself at her own household compartment, her back braced against a post, her legs stretched out stiff and straight before her into the dance corridor – the public alley of the house. The manioc basket is at one side and a tray at the other. She bites the butt end of the tuber to break the skin, and using teeth and fingers pulls off the readily peelable skin. This phase of the work is leisurely. Women who are not at the moment occupied come by to chat and help casually in the peeling. A woman's daughters sit with her and help. Enough is peeled for one manioc cake – that is, one half of a basket.

The next step is the most arduous and least liked – grating the peeled tubers on a wooden board (*pediba*) that has been set with abrasive stones. A woman can usually shift this work on to her daughter or her daughter-in-law.

The scraping process is as follows. The woman sits with her feet stretched out straight before her and slightly spread. She sets the grate on her legs with its far end braced against a house post, the forward end pressed against her abdomen. She takes up two large manioc tubers from a tray, one in each hand, and scrapes vigorously with alternate arm movements with the hardest pressure on the forward stroke. The action is vigorous, involving not only full arm movements but the bending of the back from the hips. Young women of marriageable age work rapidly and continuously until bathed in sweat. When worn down to a size where it cannot be conveniently scraped any more, the tuber is thrown aside and two others taken up. Finally, a collection of scraps is assembled into a single bunch clutched in both hands and scraped down virtually to the very bottom. This is a break in the work rhythm since both hands are used together and the move-

5: Goldman E-5 (1939-1940) 1963
SQ19 Tucano SQ19
CUBEO

423 The phratry, with its extension of kinship along a large section of
615 river, provides for amicable settlements of boundary disputes; these
[578] arise, however, over river use only, never over cultivated land. There is no thought more repugnant to the Cubeo than that one should cultivate land that has been cleared by another. When a woman dies
[768] her manioc plots are left to be grown over after the mature tubers have been harvested, so strongly do the people feel about the intimate relationship between land and its cultivator.

241 Within the sib territory, male household heads arrive at individual
614 or, more often, joint decisions as to the total clearing and the alloca-
361 tion of household manioc plots within it. An individual may select any part of the sib territory for a clearing, although by tradition and for reasons of convenience the plots are contiguous and the clearing
241 is one large space. Preparation of a clearing is most often a collective
614 effort supervised by the headman. Even as they begin to prepare a
361 clearing the household heads discuss their individual allocations and
622 stake out a location. There are two ways in which the cultivation of
476 a clearing can be organized. The preferred way is for the headman to organize a collective work party, including all household heads. If this cannot be arranged, either because of lack of agreement about a joint move or because some male household heads are away in the rubber forests or in some other work, the move is made gradually. Then the headman and his close associates are the first to move to the new location. They start the clearing by preparing their own plots, establishing a bridgehead, so to speak, for the rest of the sib. This method of moving over to a new location indicates how little anxiety the Cubeo feel about getting a choice location. When the later arrivals come they can count upon help from the headman and the earlier settlers in preparing their own clearings. The general clearing begins initially as a narrow semicircular band so that each plot is about the same distance from the house. The band is then widened by each household in accordance with its needs for new land. Annually, during the short dry seasons, a household head and the other adult males cut down and burn over the timber, outward from the *chagra*, to extend the cultivations. Manioc can be harvested at from six to 24 months. A providential family allocates one section of a field for a two-year harvest.

● 244 A manioc cultivation is always spoken of as belonging to a woman.
423 A woman says, "This *chagra* was made for me by my husband" (or "my son" or "my brother"). She is the sole administrator of the plantation and may assign sections of it to her daughters, to her daughters-in-law, and to guests who have come for an extended visit. The

5: Goldman E-5 (1939-1940) 1963
SQ19 Tucano SQ19
CUBEO

The relation of the men to the manioc cultivations is as follows. By working jointly in making a clearing the men are fulfilling, in part, a sib obligation. This is of minor importance, however, as compared with the specific obligations and the ensuing relationship between a man and a woman. No bond between a man and a woman is of greater importance and richer in sentiment than that set up by the making and cultivating of a manioc garden. Every garden plot defines a relationship between a specific man and a specific woman. A woman without a man can have no garden. A man without a woman has no clearing to make; he can have subordinate status only in another household. Each side gains status from the arrangement. The only firm bond is that between husband and wife. A widow has only a frail claim upon the labor of her brother, whose primary obligation is to his own household, where his wife keeps jealous watch over her own *chagra*; for a woman's pride is deeply involved in the size of her manioc clearing. The Cubeo regard the size of clearing as a sign of a husband's affection for his wife. A widow has a better claim upon an unmarried son. As we shall see, between unmarried brother and unmarried sister a semiconjugal relationship develops over the material holding of land.

We have spoken of a reciprocity in status involved in the manioc *chagra*. There is also a specific and related economic reciprocity. By making a clearing a man obligates his wife's production. The preparation of manioc cake is never spoken of as a wifely obligation, but chicha and farinha are. The point of economic reciprocity as it sometimes emerges in the course of conjugal quarrels is entirely one of status and not of so fundamental an issue as food. If we are to speak of male-female reciprocity on matters of food the issue is between the male flesh foods and the female cultivated foods. Although a man obligates his wife's labor for chicha and for farinha he evidently does not obligate all of it, for a woman will suddenly declare that she is cosponsoring a drinking party by a contribution of "her" manioc. Moreover, it is part of the status of a wife that she can freely contract part of her farinha production for personal objects, such as cloth and trinkets. If there is a formal principle governing this kind of connubial economic arrangement I did not learn what it is.

The point to emphasize with respect to manioc cultivations, then, is that the issue in possession of land is not simply that of subsistence. It would be unthinkable for a Cubeo to allow a sibmate, or phratry mate for that matter, to hunger if he had any food for him. When a solitary woman laments that her *chagra* is exhausted and no kinsman is moving to make another for her, the fear she voices is not that she

5: Goldman E-5 (1939-1940) 1963
SQ19 Tucano SQ19
CUBEO

244 423 will lack food, but that she will lack a role in chicha preparation and be deprived of trade goods. Her fear is for loss of status.

[261] [602] [558] The *chagra*, to summarize, is a well-defined item of property. It is the domain of a particular woman, in the sense of economics, in the sense of status, and, as mentioned earlier, as a kind of sanctuary. No other land in the community has this character of particularity. All other cultivations, including pupunha orchards, belong to the cultivator, but the land on which they are grown has no standing as personal property. Whereas the manioc gardens of a household have contiguity, to the point where a son clears a plot for his wife adjacent to that of his mother, the variety of its other cultivations are scattered over the entire settlement.

241 423 With respect to all secondary crops, there is also very clear recognition of ownership. Each planting has its known owner, who may be a man, a woman, or a child. Ownership rights are scrupulously respected, and no one would consider disturbing another's plantings [622] without permission. Tobacco, coca, and *mihi* are generally grown for the community by the headman, but are recognized, nevertheless, [431] as his plantings. He also contributes to the community all of his pupunha harvest. But it is precisely because he contributes to the [183] community that his ownership is clearly acknowledged. The point, of course, about Cubeo property relations is that generosity and shar- [430] ing go along with the assertion of individual rights. The privilege of the individual as a *giver* is thereby respected. The least formal 249 423 sharing involves sugar cane. It is understood that everyone is entitled 431 to the simple refreshment of a freshly cut stalk of cane. Even so, adults who do not have cane of their own prefer an invitation. Children, on the other hand, do not stand on ceremony. Yet even a very young tot who is cutting a stalk does so with the announcement, "I am now cutting the cane of my older brother," or whatever the kinship connection may be.

226 423 614 On the river, the masculine domain, the men have staked out sites for placing weirs and fish traps. The setting of weirs is the one territorial issue that disturbs the harmony between sibs along a river. Weirs are commonly set in a *caño*, in which case they are a purely intrasib matter. If, however, men block the main stream they are obligated to allow fish to pass through periodically. "Sometimes they [578] forget," I was told, "and then we go and tell them. But if they are mean then we go at night and break up their weirs." Such disputes 423 are not common. Within the sib the issue is not of weir rights but of 226 specialization in fishing methods. A man develops a preference for weir fishing, he troubles to prepare the cumbersome equipment and

5: Goldman E-5 (1939-1940) 1963
SQ19 Tucano SQ19
CUBEO

THE ECONOMIC SYSTEM

The Cubeo economy may be characterized as essentially inelastic, sustenance-oriented, and egalitarian. In these respects it contrasts with parallel root horticulture economies in other parts of the world, such as in Oceania and Africa. In those areas economies are generally in the service of social status and of political power and are, consequently, dynamic, fostering social and economic inequality. Among the Cubeo, on the other hand, and in the South American tropical forest as a whole, social status is a minor issue in production, while the headman, who in Oceania and in Africa plays a commanding role in economic distribution, has here only the most diffuse economic functions.

The relative inelasticity of an economy is, needless to say, a function of many factors. In the case of tropical forest horticulture, the nature of crops, soils, methods of cultivation, and tools are all relevant. Even more significant, however, are such factors as the social organization of production, including such fundamental matters as the division of labor, as well as the nature of political controls. The motives of production are of greatest importance. Motives of status and of political power provide, all other factors being equal, for an expanding economy. When the aim of production is mainly to provide sustenance and to maintain a limited network of lateral (as opposed to hierarchical) exchanges the economy tends to remain in equilibrium with its customary standards of community size. Such an economy is conservative and traditionalistic.

With respect to physical factors, Cubeo manioc horticulture has come close to reaching a productive limit in terms of yield per acre. The yield from *Manihot utilissima* normally ranges from six to ten tons per acre. Among the *Bahúkiwa* I estimated the acreage yield to be between five and six tons, a productivity that reflects considerable agronomical skill and effort. Any substantial increase in aggregate production would have to come more from expanded acreage, for which the land is available, than from more intensive cultivation of present plots. Acreage expansion, however, is limited by a combination of social and cultural conditions as well as by the peculiar nature of bitter manioc itself. As is well known, the ease of cultivation of bitter manioc and its relatively high yield is offset by the great effort required to rid the tubers of hydrocyanic acid. I have already described the processing of manioc from raw tuber to a cake and its heavy demands on the time of the women. Bitter manioc is a cumbersome crop and the load of 50–60 pounds that a woman carries home from the garden represents her carrying capacity.

5: Goldman E-5 (1939-1940) 1963
SQ19 Tucano SQ19
CUBEO

home from the garden represents her carrying capacity. These are the technical problems. They are not inherently formidable, except in terms of the traditional sexual division of labor of the Cubeo. The men who make the original clearing can call upon group labor and they have the spare time. If increase in manioc cultivation were only a matter of preparing a clearing it would be relatively easy for any community to double its present zone of planting. The Cubeo, however, must calculate the size of a clearing in accordance with how much land the women of a household, working independently, can cultivate. On her part, the woman does not cultivate more than she can handle in the course of her accustomed routine. In manioc cultivation each household is autonomous; and while a woman can call upon the help of another woman when she is not well there is simply no collective or cooperative organization to help harvest, bring in, and process the crop. The headman who has the authority to direct the masculine work party that prepares the clearing has no jurisdiction over the work of the women. And neither does anyone else.

Nor does the nature of demand place much pressure upon manioc production. Under ideal conditions at least two-thirds of the manioc crop is for food. The rest is divided between chicha and farinha. Since the Cubeo are moderate eaters and do not have the custom of feasting outsiders, the demand for manioc as food is inelastic. There is only a little more elasticity in the demand for chicha. Although the drinking party is a principal means for binding the sibs it cannot be said that increasing the quantity of chicha consumed at a party or adding to the traditional number of parties would promote additional sib cohesiveness. In this instance a law of diminishing returns may be said to operate.[2] In any case, since each sib assumes some of the responsibility for entertaining the others, the burden of supplying the chicha is phratry-wide. The poorer sibs entertain less often than do the richer ones.

It is in the production of farinha that some elasticity in demand may be expected. Farinha, as the Cubeo equivalent of a "cash crop," pays largely for vanity articles, ornaments that have no traditional sanction, but also for cloth petticoats, that have now become customary apparel. However, this aspect of production for the market is also socialized. The goods a woman acquires from the sale of her farinha are largely committed to the intricate network of gift exchanges that apply between husband and wife, brother and sister, and between ceremonial friends of opposite sex. In a general way

[2] See the chapter on the drinking party.

5: Goldman E-5 (1939-1940) 1963
SQ19 Tucano SQ19
CUBEO

and wife, is based upon complementarity. Complementarity of necessity entails more precisely structured relationships than does a homologous relationship as prevails particularly among brothers, the importance of seniority notwithstanding.

Among the Cubeo, the brother-sister relationship is modeled rather closely upon the husband-wife relationship, particularly in respect to forms of economic reciprocity. Even in sexual respects there appears to be a quasi-conjugal relationship. The conjugal division of labor is that a man clears a garden and his wife cultivates it. He provides fish and game, she provides the staple, manioc. She brings in forest products that can be gathered, such as grubs, ants, wild fruits, and he supplements it further by such extra cultivations as pupunha, sugar cane, squash, gourd, coca, tobacco, and *mihi*. She makes pottery and he basketry. Under more modern conditions the women secure trade goods from the whites by bartering farinha, while the men barter their labor in the rubber forest for trade goods. The women acquire, in the main, trade goods for themselves, but will always barter something for a husband, son, or brother. Similarly, a man works primarily for his own wants, such as a muzzle-loading shotgun, but will always take part of his wages in goods for his wife, daughter, or sister.

To carry this account of sexual economic complementarity further, we might add that the women prepare all the regular everyday meals while the men take over the food preparation – with the assistance of the women – for the great events when big game (e.g., tapir) or a spectacular catch of fish has been brought in. In ceremonial life it is the role of the men to astonish the women with the mysteries of the ancestor cult and the role of the women to be astonished. One of the functions of ceremonies that maintain mystery between the sexes is to augment the tension of complementarity.

Sexual complementarity is an aspect of adult status. The young are attached to generalized groups only, the boys in a young male pack that attaches itself only loosely to the adult males, while the little girls are charged with household chores under the direction of their mothers. Adult status is reached by a woman when she has a manioc garden of her own, by a man when a woman is cultivating particularly for him. From this point of view, full adult status is gained only at marriage. The Cubeo brother-sister relationship provides for adult status in advance of marriage and, as we shall see, serves to facilitate marriage and often to protect the stability of marriages. Above all, the brother-sister relationship seems to satisfy a very strong need for particularized relationships.

5: Goldman E-5 (1939-1940) 1963
SQ19 Tucano SQ19
CUBEO

593 A brother and a sister who are close to one another in age and who show a fondness for one another are regarded as being linked in a bond that is both warmer and more specialized than the normal bonds between a brother and a sister. The girl is spoken of as "belonging" to her brother. The boy prepares a manioc garden for his sister and she in turn barters a good part of her farinha production in his behalf, getting him fishhooks, ammunition, jewelry, and items of clothing. He will always bring something for her. If he wishes to act as host in a drinking party his assigned special sister has a particular obligation to assist in the preparation of chicha. They do not exchange the ordinary male-female foodstuffs since that is strictly a connubial form of reciprocity and the unmarried are part of their parents' household. They do simulate a conjugal relationship, though, in that they reportedly allow themselves the intimacy of external coitus (i.e., without intromission). On the other hand, since the girl has been allotted to her brother to be part of an exchange marriage, he assumes the right to offer his sister's sexual favors to persons of his choosing, although, as in the case of an exchange marriage, he cannot force her to accept a man against her will.

593 583 As the Cubeo explain it, the purpose of the brother-sister relationship is to provide for the boy's marriage. Since the most desirable marriages are those in which brothers exchange sisters, a boy, they say, must have a sister assigned to him if he is to have a strong bargaining position. The Cubeo do recognize the validity of a material bride price, but very few families will readily yield a daughter merely for objects. They want a daughter-in-law to replace a daughter. Exchange marriages are complicated because it does not often happen that the exchange can be immediate. The delay in completing an exchange transaction calls for a reliable guarantee that the agreement will be adhered to. For this, several recourses are available. The ultimate recourse is force. The aggrieved party will raid a household that has reneged and hope to abduct a bride, or, more commonly, love magic will be used to lure the girl away. The most assured contract is one involving cross-cousins, since it draws upon the absolute probity of relationship between a brother and a sister, who are always principals in such a marriage negotiation. But even this has a loophole in that the girl must be willing. By and large, it is the attitude of the bride-to-be that the Cubeo regard as unpredictable. If she enters upon a marriage with reservations that are not removed soon after she has been taken to her husband's community she can be counted upon to run home and stir up complications. The special brother-sister relationship is intended to guard against this. On one

6: Moser and Tayler E,N-5 (1960-1961) 1967 SQ19 Tucano SQ19

249 462 spend the greater part of the morning collecting the leaves which they prepare during the afternoon and evening. It is a serious task and one which each man undertakes with a strange air of concentration. Each coca plant is selectively stripped leaf by leaf before the next one is tackled. The headman carries the basket with him and gradually it fills with handfuls of pale sage-green leaves. The younger men collect the leaves almost reverently in their right hands before emptying them into the basket, their faces serious, their crouched bodies shining in the strong morning sun, their short, clipped speech broken occasionally by a high-pitched laugh.

512 • 244 462 85 In the distance small ribbons of smoke rise in a misty cloud. The women are just visible, their squat figures crouching among the manioc plants. They can be heard laughing; occasionally a baby cries and the children romp and play among the bright-green manioc plants whose tall spindly branches stretch skywards some six feet, terminating in clusters of long, thin, starlike leaves. With their babies straddled across their backs the women spend the morning cutting out the long potato-like roots from the sandy soil and putting the waste foliage into piles to be burnt. It is hot with the sun streaming down, the fires crackling and the smoke enshrouding the working bodies. There is little time for rest, though a woman will stop to swing her child around and let it suckle her breast; a mother may give a fat yellow beetle grub to her child to eat, having detached the head – a great delicacy, tasting like butter. Soon large baskets are filled with roughly peeled and half-cleaned roots.

512 [482] The sun is high overhead and the men leave for the *maloca* with their basket full of coca leaves; on top they place large dried leaves from the *yarumo* (Cecropia) trees which grow like weeds in the *chagra*. The women too load their heavy baskets on to their backs, the headbands taking the greater part [222] of the fifty-pound weight. The whole group hurries through the forest in silence, passing the old *chagra* where the headman's wife leaves the other women to collect pineapples, then down to the stream beneath the *maloca*. At this point comes one of the noisiest and most amusing incidents in their [515] daily life. Not only the manioc roots are washed in the water but the babies [85] too; the mothers vigorously shake their large baskets of roots, then stop to splash water over the backs of the children. For a short time there is cacophony, with screaming babies, splashing water, continuous chatter and laughter, and even barking dogs. But soon the stream is left to myriads of white and brimstone-yellow butterflies which circle everlastingly over the sandbanks, and the women, refreshed, their long black hair glistening in the sun, return up the path to the *maloca*.

Tobacco plants are nearly always grown in a little patch directly in front

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A graceful Tukano canoe.

[see p. 66-A]